



FACT SHEET

UNITED STATES AIR FORCE

JEFX00/Public Affairs

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Joint Expeditionary Force Experiment 2000

JEFX is a Chief of Staff of the Air Force-sponsored experiment that combines live forces, models, simulations, and technology insertion to create a realistic warfighting environment to explore and evaluate new and promising technologies and processes.

JEFX provides the Air Force a vehicle for experimentation with operational concepts and technologies that enhance capabilities of the 21st Century Aerospace Force. It is a broader effort to implement Joint Vision 2020, exploit the Revolution in Military Affairs and demonstrate emerging Air Force capabilities to deploy and employ decisive aerospace power for the joint force commander.

JEFX 2000 is an opportunity to discover better ways to accomplish Air Force missions in a joint/combined environment. JEFX 2000 provides a realistic environment of simulations and live-fly forces into which advanced technology and innovative processes are introduced and evaluated to determine their potential for enhancing Air Force Core Competencies. This environment is created from 35 individual models, simulations and simulators at 11 sites nation-wide and is combined with approximately 100 individual live-fly aircraft flying over the Nellis AFB ranges. This will create a dynamic and exciting operational environment for our warfighters to explore the 45 process and technology initiatives that fall under five mission areas.

JEFX Concept of Operations:

In a distributed, collaborative environment, we will enhance Expeditionary Air Force capabilities by experimenting with all AF Core Competencies through five mission threads...

Providing **agile combat support** to expeditionary aerospace forces – 11 system & 2 process initiatives

Executing **time critical targeting** of aerospace forces in pursuit of alliance objectives as directed by the CFACC – 8 system & 2 process initiatives

Dynamically **employing air mobility** forces to deploy and sustain expeditionary forces – 5 system initiatives

Dynamically executing **ISR Battle Management** by controlling sensors and processing, exploiting and disseminating intelligence, surveillance and reconnaissance information – 8 system & 4 process initiatives

Fusing multiple source information into a **Joint BattleSpace Infosphere** and disseminating it throughout a distributed C2 architecture – 4 system & 1 process initiatives

JEFX 2000 Initiative List

Initial PACAF Operations Support Center (POSC) Response in Regional Crisis
Distributed ACS Operations
Distributive SOF C2
Intelligence, Surveillance and Reconnaissance Battle Management (ISRBM)
Joint Battlespace Infosphere Management (JBIM)
Battle Control Center (BCC)
Time Critical Targeting (TCT)
Collaborative Beddown Planner (CPB)
Combat Support & Force Protection Command & Control (CSC2)
Joint Assistant for Deployment and Execution (JADE)
Logistics Simulation and Analysis Model (LogSAM)
GCSS-AF Combat Ammunition System (CAS)
Automated Data Upload Process for Quick-Reaction Site Surveys
Joint Weather Impacts System (JWIS)
Civil Engineer Beddown and Ability to Survive and Operate (CEB & ATSO)
War Reserve Material Capability Assessment (WRM-CA)
Wing-level Information for Parts Prediction (WIPP)
Identification/Course of Action Analysis-Medical Surveillance in an AEF and the Identification of a BW/CW Event
Virtual Airline Airfield Manager (AFM)
Expeditionary Integrated Flight Management (EIFM)
Integrated Information for Global Reach (IFGR)
Deployable Consolidated AMC Mission Planning System (CAMPS)
Time-Phased Force Deployment Data (TPFDD) In An Hour

Integrated Collection Management Advanced Concept Technology Demonstration (ICM-ACTD)
NIMA Support to the Warfighter
Dynamic Moving Target Information Exploitation (DMTIX)
Integrated Space-Based and Airborne Hyperspectral Imaging (HSI) Sensors
Enhanced Intelligence Data Analysis System for Spacecraft (IDASS-E)
Broadcast-Request Imagery Technology Experiment (BRITE)
Cooperative Cross-Platform SIGINT Geolocation
Overhead OPELINT Geolocation, User Interface
Vulnerability Assessment and Risk Management (VA/RM) Experiment for Info Assurance
Trusted Transfer Agent for Reach Down (TTA4RD)
Master Caution Panel (from JEFX 99)
Joint Battlespace Infosphere "Wright Flyer" (JBIWF)
Joint Applications for Speech Technology (JAST)-Theater Air Planning (TAP)
Mission Analysis Tracking and Tabulation System/Integrated Targeting Environment (MATTS/ITE)
Bomber Enhanced Tactical Interface (BETI)
Attack Operations Decision Aid (AODA)
TBMCS/ABCS Interoperability
Army Space Command
AFSPC Classified
Talon Gateway
Project SUTER
PANTHER DEN

Major Operational Nodes For JEFX 2000

There are a number of sites and nodes across the continental United States and the Pacific theater all connected through an electronic "Global Information Grid" network. They include:

The **Combined Air Operations Center (CAOC)** at Hurlburt Field, FL that will simulate an Aerospace Operations Center that has been deployed to an overseas location and will host the Combined Forces Air Component Commander and his air operations command and control functions.

The **Combined Air Operations Center-Forward (CAOC-F)** at Nellis AFB, NV that will be the focal point for prosecuting time critical targeting as an extension of the CAOC.

Deployed **Expeditionary Operations Center (EOC)**, also at Nellis AFB consisting of wing-level command and control elements of an Air Expeditionary Force that plan and execute missions tasked by the CAOC through the Air Tasking Order (ATO).

The **Operations Support Center (OSC)** at Langley AFB, VA will serve as the primary reach back node in the experiment's

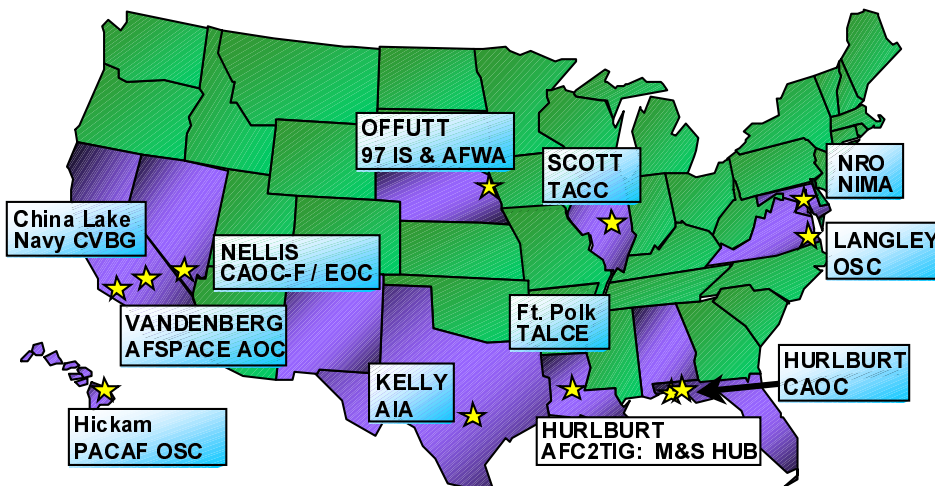
distributed operations scenario. It will provide the majority of the Air Force Forces (AFFOR) support functions in collaboration with CAOC AFFOR personnel.

The **Tanker Airlift Control Center (TACC)** at Scott AFB, IL manages worldwide airlift and tanker support and integrates missions into the combat theater.

The **Air Force Space Air Operations Center (AFSPACE AOC)** at Vandenberg AFB, CA integrates support from space sensors and communications satellites and knowledge of the adversaries' space capabilities into CAOC operations.

The **Air Intelligence Agency (AIA)** at Kelly AFB, TX and the **Air Force Weather Agency (AFWA)** at Offutt AFB, NE provide intelligence and weather information to the distributed operations network and integration into ATO planning and execution.

JEFX 2000 Operational Nodes



Modeling and Simulation

In addition to the operational locations, JEFX 2000 will use a Modeling and Simulation Network of 35 models, simulation and simulators at 11 sites to create a robust constructive and virtual battlespace environment. That environment will support initiative exploration and act as a force multiplier for the live environment.

JEFX 2000 "LIVE-FLY" PLAYERS

JEFX will employ more than 100 aircraft flying more than 300 sorties over the Nellis Ranges and the Joint Readiness Training Center at Ft. Polk, La.

Organization	TYPE
53WG	A-10
	F-15E
	F-15C
	F-16CJ
	F-16CG
	HH-60
	HH-60
938RQW	B-1
28 BW	F-15E
366WG	F-16
162FW (ANG)	F-117
49FW	E-3
552ACW	E-8
93ACW	RC-135
55WG/AFMC	U-2
9RW	B-2
509 BW	B-52
917WG (AFR)	GH
ASC	Predator
57WG	Twin Otter
AFMC	Space Based Radar
SWC	A-10/OA-10
23FG	C-130
AMC	C-135
AFRL	F-16
AFR	WB57
NASA	EA-6B
USN	EC-130H
AFMC	KC-135
366WG	KC-135
AMC	MC-130E
AFSOC	EC-130
ANG	AH-64
USA	F-18
USMC	A-3
USN	

MILLENNIUM CHALLENGE 2000



JEFX 2000 is part of the U.S. Joint Forces Command's Millennium Challenge 00 joint warfighting experiment that includes the Army's Joint Contingency Force Advanced Warfighting Experiment, the Navy's Fleet Battle Experiment Hotel, and the Marines Corp's Millennium Dragon large-scale experiment.